Mr. Jeffrey A. Woodring, P.E.
Grissom Air Reserve Base
434 ARW/CC, Building 667
Grissom Air Reserve Base , Indiana 46971-5000

Re: **103-11821**
Second Administrative Amendment to:
Part 70 permit No.: **T 103-7426-00008**

Dear Mr. Woodring:

Grissom Air Reserve Base was issued Part 70 operating permit **T 103-7426-00008** on December 1, 1999 for a military base. An application to modify the source was received on January 20, 2000. A Significant Source Modification (103-11789-00008) gave the source approval to construct. Pursuant to the provisions of 2-7-11 the permit is hereby administratively amended, to give the source approval to operate, as follows:

The following Insignificant Activities have been added to Section A.3 of the permit:

(u) One (1) natural gas-fired boiler, identified as Boiler 100, located in Building 100, maximum capacity: 0.650 million British thermal units per hour.

(v) One (1) natural gas-fired boiler, identified as Boiler 209A, located in Building 209, maximum capacity: 2.70 million British thermal units per hour.

(w) One (1) natural gas-fired boiler, identified as Boiler 209B, located in Building 209, maximum capacity: 0.040 million British thermal units per hour.

(x) One (1) natural gas-fired roof top boiler, identified as Boiler 209RA, located in Building 209, maximum capacity: 0.250 million British thermal units per hour.

(y) One (1) natural gas-fired roof top boiler, identified as Boiler 209RB, located in Building 209, maximum capacity: 0.250 million British thermal units per hour.

(z) One (1) natural gas-fired roof top boiler, identified as Boiler 209RC, located in Building 209, maximum capacity: 0.250 million British thermal units per hour.

(aa) One (1) natural gas-fired boiler, identified as Boiler 325, located in Building 325, maximum capacity: 1.50 million British thermal units per hour.

(bb) One (1) natural gas-fired boiler, identified as Boiler 327, located in Building 327, maximum capacity: 5.00 million British thermal units per hour.

(cc) One (1) natural gas-fired boiler, identified as Boiler 330, located in Building 330, maximum capacity: 0.650 million British thermal units per hour.

(dd) One (1) natural gas-fired boiler, identified as Boiler 331, located in Building 331, maximum capacity: 5.00 million British thermal units per hour.

(ee) One (1) natural gas-fired boiler, identified as Boiler 420, located in Building 420, maximum capacity: 2.50 million British thermal units per hour.

(ff) One (1) natural gas-fired boiler, identified as Boiler 427, located in Building 427, maximum capacity: 3.00 million British thermal units per hour.

(gg) One (1) natural gas-fired boiler, identified as Boiler 430, located in Building 430, maximum capacity: 0.450 million British thermal units per hour.

(hh) One (1) natural gas-fired boiler, identified as Boiler 435, located in Building 435, maximum capacity: 0.900 million British thermal units per hour.

(ii) One (1) natural gas-fired boiler, identified as Boiler 431, located in Building 431, maximum capacity: 0.450 million British thermal units per hour.

(jj) One (1) natural gas-fired boiler, identified as Boiler 448, located in Building 448, maximum capacity: 0.650 million British thermal units per hour.

(kk) One (1) natural gas-fired boiler, identified as Boiler 453, located in Building 453, maximum capacity: 5.00 million British thermal units per hour.

(ll) One (1) natural gas-fired boiler, identified as Boiler 596A, located in Building 596, maximum capacity: 1.20 million British thermal units per hour.

(mm) One (1) natural gas-fired boiler, identified as Boiler 596B, located in Building 596, maximum capacity: 0.040 million British thermal units per hour.

(nn) One (1) natural gas-fired boiler, identified as Boiler 663, located in Building 663, maximum capacity: 1.50 million British thermal units per hour.

(oo) One (1) natural gas-fired boiler, identified as Boiler 667, located in Building 667, maximum capacity: 0.450 million British thermal units per hour.

(pp) One (1) natural gas-fired boiler, identified as Boiler 668, located in Building 668, maximum capacity: 0.450 million British thermal units per hour.

(qq) One (1) natural gas-fired boiler, identified as Boiler 670, located in Building 670, maximum capacity: 0.450 million British thermal units per hour.

(rr) One (1) natural gas-fired boiler, identified as Boiler 671, located in Building 671, maximum capacity: 0.650 million British thermal units per hour.

(ss) One hundred and ten (110) natural gas-fired infrared heaters, maximum capacity: 20.70 million British thermal units per hour, total.

These facilities, with the exception of (ss), were also added to a Facility Description box in a new section, Section D.7 of the permit. Item (ss) was not included in the Facility Description box because there are no applicable rules. Item (ss) is included in Section A.3 of the permit because, during Title V review, the applicant requested that all insignificant emissions units be included in Section A.3. The following Conditions have been added to the permit:

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.7.1 Particulate Matter Limitation (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the PM emissions from each of the twenty-four (24) boilers shall not exceed 0.24 pounds per million British thermal units. The limitation was computed using the following equation:

$$Pt = 1.09/Q^{0.26}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the name-plate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

Compliance Determination Requirements

D.7.2 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.7.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact CarrieAnn Ortolani, c/o OAM, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 631-691-3395 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Management

CAO/MES
Attachments

cc: File - Miami County
U.S. EPA, Region V
Air Compliance Section Inspector - Ryan Hillman
Compliance Data Section - Karen Nowak
Administrative and Development - Janet Mobley
Technical Support and Modeling - Michele Boner

PART 70 OPERATING PERMIT
OFFICE OF AIR MANAGEMENT

Grissom Air Reserve Base
434 ARW/CC, Building 667
Grissom Air Reserve Base, Indiana 46971-5000

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T 103-7426-00008	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date: December 1, 1999

First Administrative Amendment 103-11655-00008, issued on December 17, 1999
First Significant Source Modification 103-11789-00008

Second Administrative Amendment: 103-11821-00008	Pages Affected: 5; 10 becomes 10a and 10b; and 46a and 46b added to the permit
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

(20) One (1) propane storage tank, capacity: 4,000 gallons.

(21) Several propane tanks equal or less than 1,000 gallons.

(22) Twenty-four (24) diesel above ground storage tanks, capacity: less than 1,000 gallons.

(23) One (1) gasoline above ground storage tank, capacity: less than 1,000 gallons.

(24) One (1) JP-8 above ground storage tank, capacity: less than 1,000 gallons.

(u) One (1) natural gas fired boiler, identified as Boiler 100, located in Building 100, maximum capacity: 0.650 million British thermal units per hour.

(v) One (1) natural gas fired boiler, identified as Boiler 209A, located in Building 209, maximum capacity: 2.70 million British thermal units per hour.

(w) One (1) natural gas fired boiler, identified as Boiler 209B, located in Building 209, maximum capacity: 0.040 million British thermal units per hour.

(x) One (1) natural gas fired roof top boiler, identified as Boiler 209RA, located in Building 209, maximum capacity: 0.250 million British thermal units per hour.

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(z) One (1) natural gas fired roof top boiler, identified as Boiler 209RC, located in Building 209, maximum capacity: 0.250 million British thermal units per hour.

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(cc) One (1) natural gas fired boiler, identified as Boiler 330, located in Building 330, maximum capacity: 0.650 million British thermal units per hour.

(dd) One (1) natural gas fired boiler, identified as Boiler 331, located in Building 331, maximum capacity: 5.00 million British thermal units per hour.

(ee) One (1) natural gas fired boiler, identified as Boiler 420, located in Building 420, maximum capacity: 2.50 million British thermal units per hour.

(ff) One (1) natural gas fired boiler, identified as Boiler 427, located in Building 427, maximum capacity: 3.00 million British thermal units per hour.

(gg) One (1) natural gas fired boiler, identified as Boiler 430, located in Building 430, maximum capacity: 0.450 million British thermal units per hour.

(hh) One (1) natural gas fired boiler, identified as Boiler 435, located in Building 435, maximum capacity: 0.900 million British thermal units per hour.

(ii) One (1) natural gas fired boiler, identified as Boiler 431, located in Building 431, maximum capacity: 0.450 million British thermal units per hour.

(jj) One (1) natural gas fired boiler, identified as Boiler 448, located in Building 448, maximum capacity: 0.650 million British thermal units per hour.

(kk) One (1) natural gas fired boiler, identified as Boiler 453, located in Building 453, maximum capacity: 5.00 million British thermal units per hour.

(ll) One (1) natural gas fired boiler, identified as Boiler 596A, located in Building 596, maximum capacity: 1.20 million British thermal units per hour.

(mm) One (1) natural gas fired boiler, identified as Boiler 596B, located in Building 596, maximum capacity: 0.040 million British thermal units per hour.

(nn) One (1) natural gas fired boiler, identified as Boiler 663, located in Building 663, maximum capacity: 1.50 million British thermal units per hour.

(oo) One (1) natural gas fired boiler, identified as Boiler 667, located in Building 667, maximum capacity: 0.450 million British thermal units per hour.

(pp) One (1) natural gas fired boiler, identified as Boiler 668, located in Building 668, maximum capacity: 0.450 million British thermal units per hour.

(qq) One (1) natural gas fired boiler, identified as Boiler 670, located in Building 670, maximum capacity: 0.450 million British thermal units per hour.

(rr) One (1) natural gas fired boiler, identified as Boiler 671, located in Building 671, maximum capacity: 0.650 million British thermal units per hour.

(ss) One hundred and ten (110) natural gas fired infrared heaters, maximum capacity: 20.70 million British thermal units per hour, total.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION D.7 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] - Insignificant Activities	
(u)	One (1) natural gas fired boiler, identified as Boiler 100, located in Building 100, maximum capacity: 0.650 million British thermal units per hour.
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(rr) One (1) natural gas fired boiler, identified as Boiler 671, located in Building 671, maximum capacity: 0.650 million British thermal units per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.7.1 Particulate Matter Limitation (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the PM emissions from each of the twenty-four (24) boilers shall not exceed 0.24 pounds per million British thermal units. The limitation was computed using the following equation:

$$Pt = 1.09/Q^{0.26}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/MMBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (MMBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used. (Q = 343 million British thermal units per hour)

Compliance Determination Requirements

D.7.2 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing when necessary to determine if the facilities are in compliance. If testing is required by IDEM, compliance with the PM limits specified in Condition D.7.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.